

10/672,843

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	46	ehrlich\$2 adj reagent same (solid adj support or substrate or solid adj phase or Nunc adj covalink\$2 or glass or polystyrene, or micro\$1array or immobilize or DNA\$1bind\$2 or label or fluoresce\$3 or biotin or enzyme)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/13 14:14
S1	22	ehrlich\$2 adj reagent same (solid adj support or substrate or solid adj phase or Nunc adj covalink\$2 or glass or polystyrene, or micro\$1array or immobilize or DNA\$1bind\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/13 14:13

10/672843

=> FIL REGISTRY
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
0.21	0.21

FILE 'REGISTRY' ENTERED AT 10:59:20 ON 13 MAY 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 12 MAY 2005 HIGHEST RN 850400-93-0
DICTIONARY FILE UPDATES: 12 MAY 2005 HIGHEST RN 850400-93-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

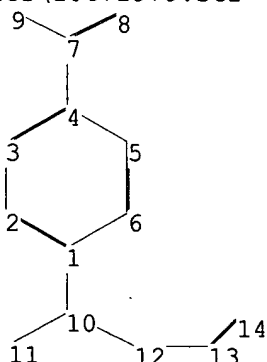
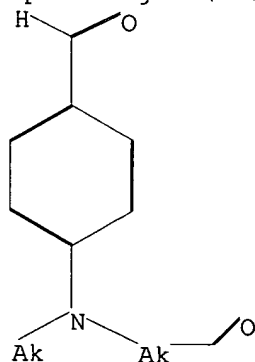
Please note that search-term pricing does apply when conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>
Uploading C:\Program Files\Stnexp\Queries\10671979.str



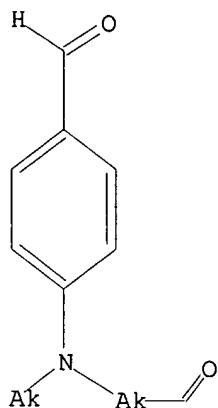
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7 8 9 10 11 12 13 14
ring nodes :
1 2 3 4 5 6
chain bonds :
1-10 4-7 7-8 7-9 10-11 10-12 12-13 13-14
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
1-10 7-8 10-11 10-12 12-13 13-14

exact bonds :
4-7 7-9
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SEARCH INITIATED 10:59:51 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 41351 TO ITERATE

2.4% PROCESSED 1000 ITERATIONS 1 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 814881 TO 839159
PROJECTED ANSWERS: 442 TO 1212

L2 1 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 10:59:58 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 824642 TO ITERATE

48.5% PROCESSED 400000 ITERATIONS 32 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.10

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**

BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 824642 TO 824642
PROJECTED ANSWERS: 41 TO 89

L3 32 SEA SSS FUL L1

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	161.76	161.97

FILE 'CAPLUS' ENTERED AT 11:00:15 ON 13 MAY 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 13 May 2005 VOL 142 ISS 21
FILE LAST UPDATED: 12 May 2005 (20050512/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13

L4 21 L3

=> s 14 and (solid support or solid phase or nunc covalink? or substrate or dna!bind or glass or polystyrene or micro!array or immobilize or biotin)

960151 SOLID
273126 SOLIDS
1161929 SOLID
(SOLID OR SOLIDS)
414336 SUPPORT
116044 SUPPORTS
492385 SUPPORT
(SUPPORT OR SUPPORTS)
9476 SOLID SUPPORT
(SOLID(W) SUPPORT)
960151 SOLID
273126 SOLIDS
1161929 SOLID
(SOLID OR SOLIDS)
1577041 PHASE
333149 PHASES
1717935 PHASE
(PHASE OR PHASES)
102146 SOLID PHASE
(SOLID(W) PHASE)
53 NUNC
29 COVALINK?
2 NUNC COVALINK?
(NUNC(W) COVALINK?)
800990 SUBSTRATE

368073 SUBSTRATES
 1001040 SUBSTRATE
 (SUBSTRATE OR SUBSTRATES)
 0 DNA!BIND
 668074 GLASS
 128894 GLASSES
 696371 GLASS
 (GLASS OR GLASSES)
 135851 POLYSTYRENE
 4187 POLYSTYRENES
 136665 POLYSTYRENE
 (POLYSTYRENE OR POLYSTYRENES)
 2 MICRO!ARRAY
 3639 IMMOBILIZE
 409 IMMOBILIZES
 4030 IMMOBILIZE
 (IMMOBILIZE OR IMMOBILIZES)
 27227 BIOTIN
 106 BIOTINS
 27236 BIOTIN
 (BIOTIN OR BIOTINS)

L5 6 L4 AND (SOLID SUPPORT OR SOLID PHASE OR NUNC COVALINK? OR SUBSTRATE OR DNA!BIND OR GLASS OR POLYSTYRENE OR MICRO!ARRAY OR IMMOBILIZE OR BIOTIN)

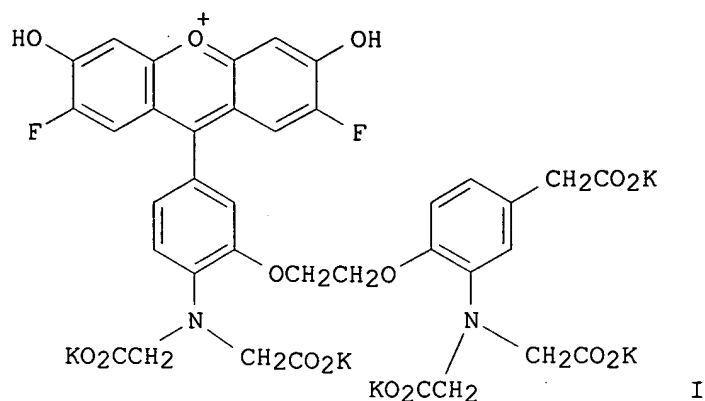
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 L6 6 DUP REM L5 (0 DUPLICATES REMOVED)
 ANSWERS '1-6' FROM FILE CAPLUS

=> d l6 ibib abs hitstr tot

L6 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2005:58103 CAPLUS
 DOCUMENT NUMBER: 142:130341
 TITLE: Metal-binding molecules and metal complexes and
 methods for detection and isolation of phosphorylated
 molecules
 INVENTOR(S): Agnew, Brian; Gee, Kyle R.; Martin, Vladimir V.
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 96 pp., Cont.-in-part of U.S.
 Ser. No. 703,816.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005014197	A1	20050120	US 2004-821522	20040409
US 2004038306	A1	20040226	US 2003-428192	20030502
US 2004171034	A1	20040902	US 2003-703816	20031107
PRIORITY APPLN. INFO.:			US 2002-377733P	P 20020503
			US 2002-393059P	P 20020628
			US 2002-407255P	P 20020830
			US 2003-440252P	P 20030114
			US 2003-428192	A2 20030502
			US 2003-703816	A2 20031107

OTHER SOURCE(S): MARPAT 142:130341
 GI



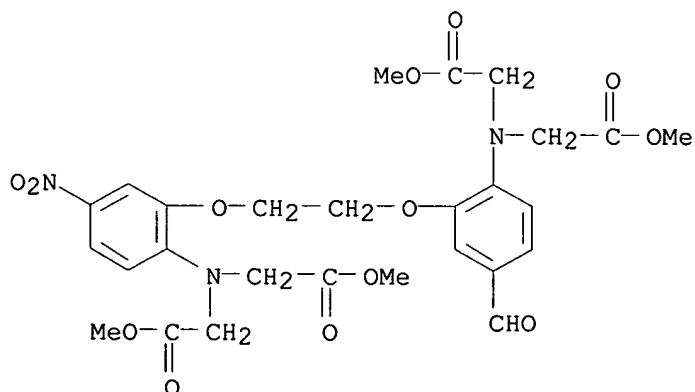
AB The present invention relates to phosphate-binding compds. that find use in binding, detecting and isolating phosphorylated target mols. including the subsequent identification of target mols. that interact with phosphorylated target mols. or mols. capable of being phosphorylated. The phosphate-binding compds. comprise a metal-chelating moiety such as BAPTA, DTPA, IDA, and phenanthroline. This metal-chelating moiety is desirably attached to a label, e.g., a dye or a hapten and/or a reactive group. Preferred dyes are benzofurans, quinazolinones, xanthenes, indoles, benzazoles, and borapolyazaindacenes. A binding solution is provided that comprises a phosphate-binding compound, an acid and a metal ion wherein the metal ion simultaneously interacts with an exposed phosphate group on a target mol. and the metal chelating moiety of the phosphate-binding compound forming a bridge between the phosphate-binding compound and a phosphorylated target mol. resulting in a ternary complex. The binding solution of the present invention finds use in binding and detecting immobilized and solubilized phosphorylated target mols., isolation of phosphorylated target mols. from a complex mixture and aiding in proteomic anal. wherein kinase and phosphatase **substrates** and enzymes can be identified. Thus, a compound comprising dihydroxydifluoroxanthene attached to BAPTA and dextran (I) was prepared. I might be used, after addition of GaCl₃ to form complexes, as an affinity matrix to isolate phosphopeptides. The phosphopeptides might then be identified by mass spectrometry.

IT 663625-87-4

RL: RCT (Reactant); RACT (Reactant or reagent)
(metal-binding mols. and metal complexes and methods for detection and isolation of phosphorylated mols.)

RN 663625-87-4 CAPLUS

CN Glycine, N-[2-[2-[2-[bis(2-methoxy-2-oxoethyl)amino]-5-formylphenoxy]ethoxy]-4-nitrophenyl]-N-(2-methoxy-2-oxoethyl)-, methyl ester (9CI) (CA INDEX NAME)



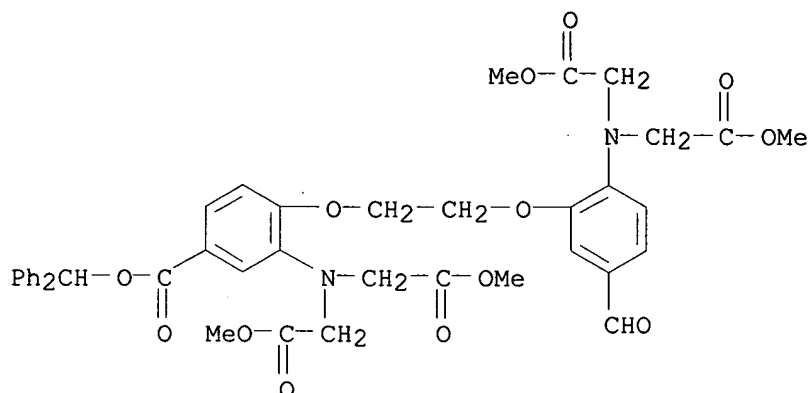
IT 663625-69-2P 663625-80-7P 663625-97-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(metal-binding mols. and metal complexes and methods for detection and isolation of phosphorylated mols.)

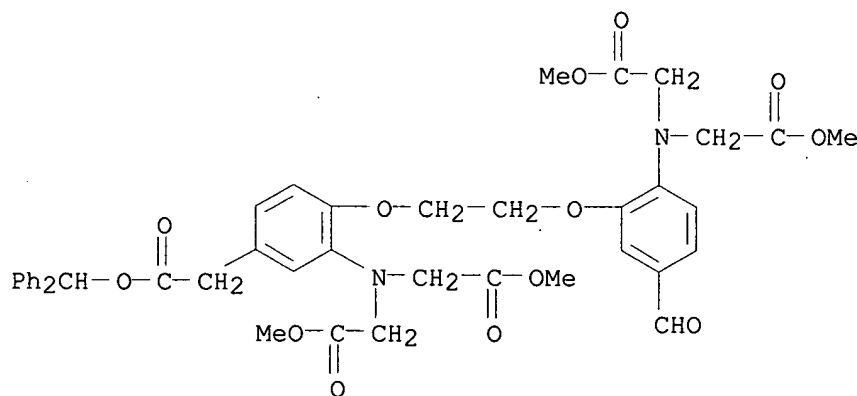
RN 663625-69-2 CAPLUS

CN Benzoic acid, 3-[bis(2-methoxy-2-oxoethyl)amino]-4-[2-[2-[bis(2-methoxy-2-oxoethyl)amino]-5-formylphenoxy]ethoxy]-, diphenylmethyl ester (9CI) (CA INDEX NAME)



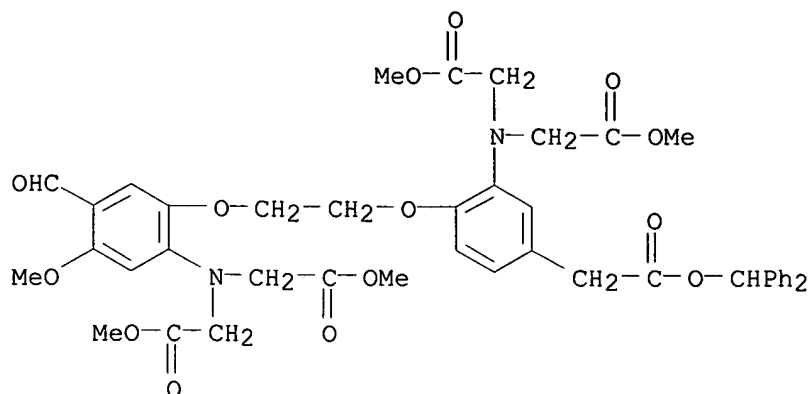
RN 663625-80-7 CAPLUS

CN Benzeneacetic acid, 3-[bis(2-methoxy-2-oxoethyl)amino]-4-[2-[2-[bis(2-methoxy-2-oxoethyl)amino]-5-formylphenoxy]ethoxy]-, diphenylmethyl ester (9CI) (CA INDEX NAME)



RN 663625-97-6 CAPLUS

CN Benzeneacetic acid, 3-[bis(2-methoxy-2-oxoethyl)amino]-4-[2-[2-[bis(2-methoxy-2-oxoethyl)amino]-5-formyl-4-methoxyphenoxy]ethoxy]-, diphenylmethyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:722822 CAPLUS

DOCUMENT NUMBER: 141:239312

TITLE: Compositions and methods for detection and isolation of phosphorylated molecules

INVENTOR(S): Agnew, Brian; Beechem, Joseph; Gee, Kyle; Haugland, Richard; Steinberg, Thomas; Patton, Wayne

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 89 pp., Cont.-in-part of U.S. Ser. No. 428,192.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004171034	A1	20040902	US 2003-703816	20031107
US 2004038306	A1	20040226	US 2003-428192	20030502
US 2005014197	A1	20050120	US 2004-821522	20040409
PRIORITY APPLN. INFO.:			US 2002-377733P	P 20020503
			US 2002-393059P	P 20020628
			US 2002-407255P	P 20020830
			US 2003-440252P	P 20030114
			US 2003-428192	A2 20030502
			US 2003-703816	A2 20031107

AB The present invention relates to phosphate-binding compds. that find use in binding, detecting and isolating phosphorylated target mols. including the subsequent identification of target mols. that interact with phosphorylated target mols. or mols. capable of being phosphorylated. A binding solution is provide that comprises a phosphate-binding compound, an acid and a metal ion wherein the metal ion simultaneously interacts with an exposed phosphate group on a target mol. and the metal chelating moiety of the phosphate-binding compound forming a bridge between the phosphate-binding compound and a phosphorylated target mol. resulting in a ternary complex. The binding solution of the present invention finds use in binding and detecting immobilized and solubilized phosphorylated target mols., isolation of phosphorylated target mols. from a complex mixture and aiding in proteomic anal. wherein kinase and phosphatase **substrates** and enzymes can be identified.

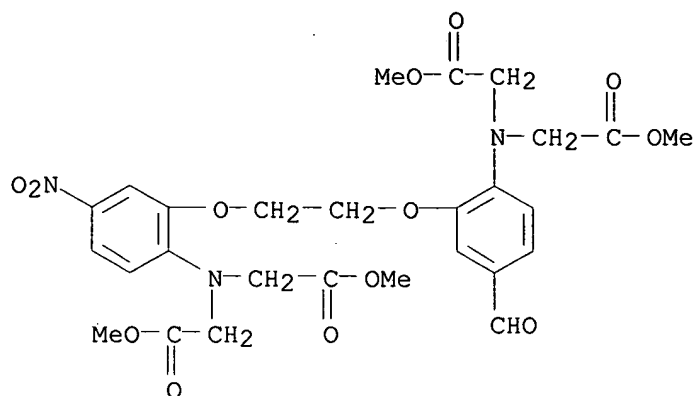
IT 663625-87-4

RL: RCT (Reactant); RACT (Reactant or reagent)
(compns. and methods for detection and isolation of phosphorylated mols.)

RN 663625-87-4 CAPLUS

CN Glycine, N-[2-[2-[2-[bis(2-methoxy-2-oxoethyl)amino]-5-

formylphenoxy]ethoxy]-4-nitrophenyl]-N-(2-methoxy-2-oxoethyl)-, methyl ester (9CI) (CA INDEX NAME)



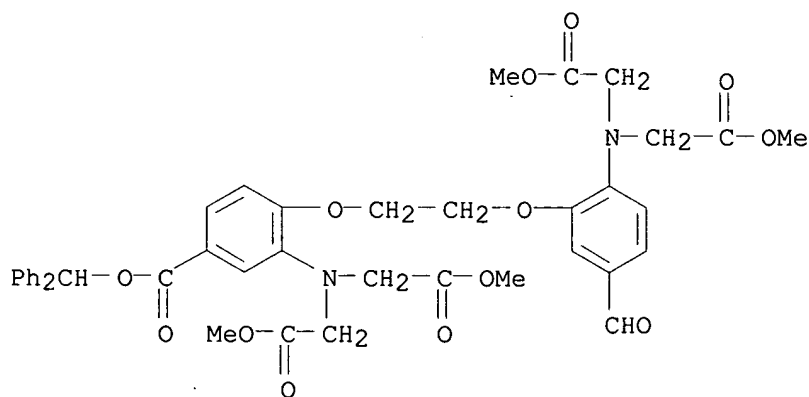
IT 663625-69-2P 663625-80-7P 663625-97-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(comps. and methods for detection and isolation of phosphorylated mols.)

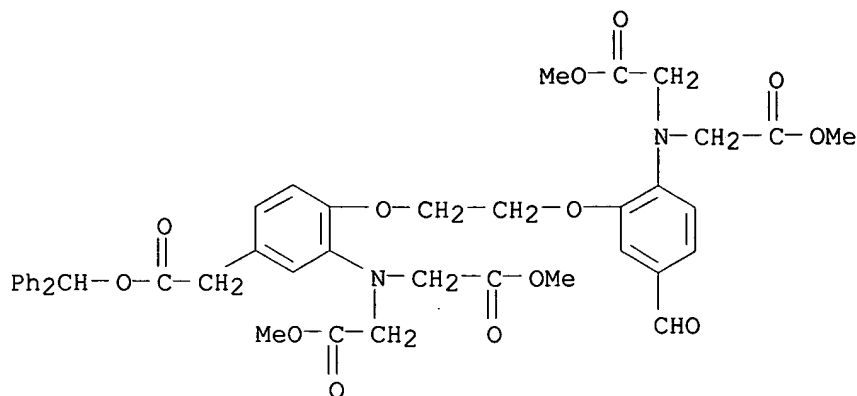
RN 663625-69-2 CAPLUS

CN Benzoic acid, 3-[bis(2-methoxy-2-oxoethyl)amino]-4-[2-[2-bis(2-methoxy-2-oxoethyl)amino]-5-formylphenoxy]ethoxy]-, diphenylmethyl ester (9CI) (CA INDEX NAME)



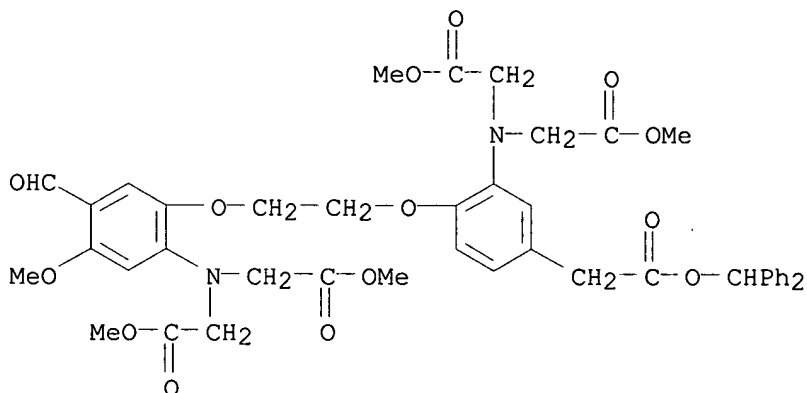
RN 663625-80-7 CAPLUS

CN Benzeneacetic acid, 3-[bis(2-methoxy-2-oxoethyl)amino]-4-[2-[2-bis(2-methoxy-2-oxoethyl)amino]-5-formylphenoxy]ethoxy]-, diphenylmethyl ester (9CI) (CA INDEX NAME)



RN 663625-97-6 CAPLUS

CN Benzeneacetic acid, 3-[bis(2-methoxy-2-oxoethyl)amino]-4-[2-[2-[bis(2-methoxy-2-oxoethyl)amino]-5-formyl-4-methoxyphenoxy]ethoxy]-, diphenylmethyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:162337 CAPLUS

DOCUMENT NUMBER: 140:213577

TITLE: Compositions and methods for detection and isolation of phosphorylated molecules

INVENTOR(S): Agnew, Brian; Beechem, Joseph; Gee, Kyle; Haugland, Richard; Liu, Jixiang; Martin, Vladimir; Patton, Wayne; Steinberg, Thomas

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 83 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004038306	A1	20040226	US 2003-428192	20030502
WO 2004042347	A2	20040521	WO 2003-US13765	20030502
WO 2004042347	A3	20050414		

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PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
 UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2004171034 A1 20040902 US 2003-703816 20031107

US 2005014197 A1 20050120 US 2004-821522 20040409

PRIORITY APPLN. INFO.:

US 2002-377733P P 20020503

US 2002-393059P P 20020628

US 2002-407255P P 20020830

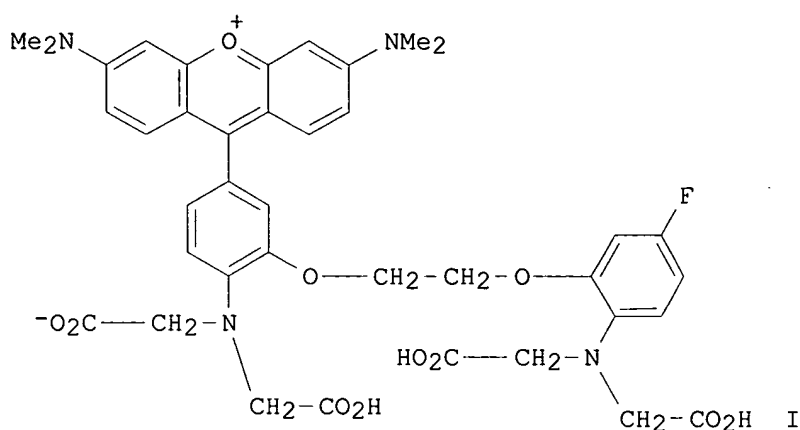
US 2003-440252P P 20030114

US 2003-428192 A2 20030502

US 2003-703816 A2 20031107

OTHER SOURCE(S): MARPAT 140:213577

GI



AB The present invention relates to phosphate-binding compds. that find use in binding, detecting and isolating phosphorylated target mols. including the subsequent identification of target mols. that interact with phosphorylated target mols. or mols. capable of being phosphorylated. A binding solution is provide that comprises a phosphate-binding compound, an acid and a metal ion wherein the metal ion simultaneously interacts with an exposed phosphate group on a target mol. and the metal chelating moiety of the phosphate-binding compound forming a bridge between the phosphate-binding compound and a phosphorylated target mol. resulting in a ternary complex. The binding solution of the present invention finds use in binding and detecting immobilized and solubilized phosphorylated target mols., isolation of phosphorylated target mols. from a complex mixture and aiding in proteomic anal. wherein kinase and phosphatase **substrates** and enzymes can be identified. A human MRC-5 lung fibroblast cell lysate protein mixture was separated by two-dimensional gel electrophoresis. The gel was fixed and then phosphoproteins were stained with a solution containing 50 mM NaOAc, pH 4.0, 250 mM NaCl, 20% volume/volume 1,2-propanediol, 1 μ M rhodamine-BAPTA chelating compound I, and 1 μ M gallium chloride.

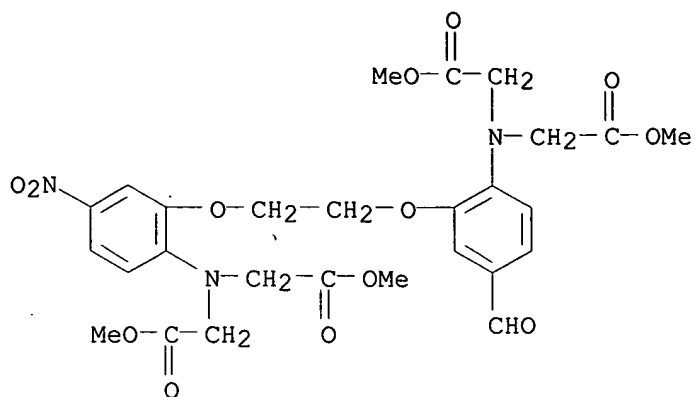
IT 663625-87-4

RL: RCT (Reactant); RACT (Reactant or reagent)

(metal ions, acids, and chelating phosphate-binding agents for detection and isolation of phosphorylated mols.)

RN 663625-87-4 CAPLUS

CN Glycine, N-[2-[2-[2-[bis(2-methoxy-2-oxoethyl)amino]-5-formylphenoxy]ethoxy]-4-nitrophenyl]-N-(2-methoxy-2-oxoethyl)-, methyl ester (9CI) (CA INDEX NAME)



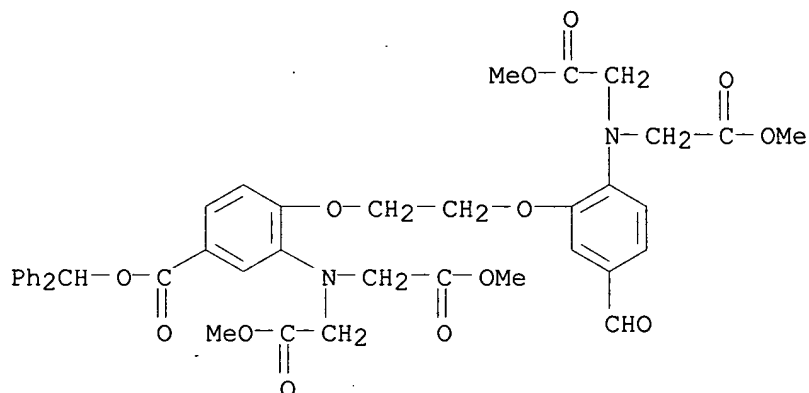
IT 663625-69-2P 663625-80-7P 663625-97-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(metal ions, acids, and chelating phosphate-binding agents for detection and isolation of phosphorylated mols.)

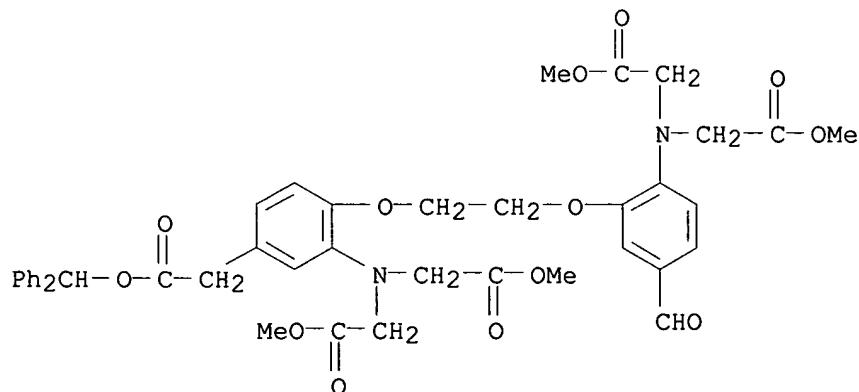
RN 663625-69-2 CAPLUS

CN Benzoic acid, 3-[bis(2-methoxy-2-oxoethyl)amino]-4-[2-[2-[bis(2-methoxy-2-oxoethyl)amino]-5-formylphenoxy]ethoxy]-, diphenylmethyl ester (9CI) (CA INDEX NAME)

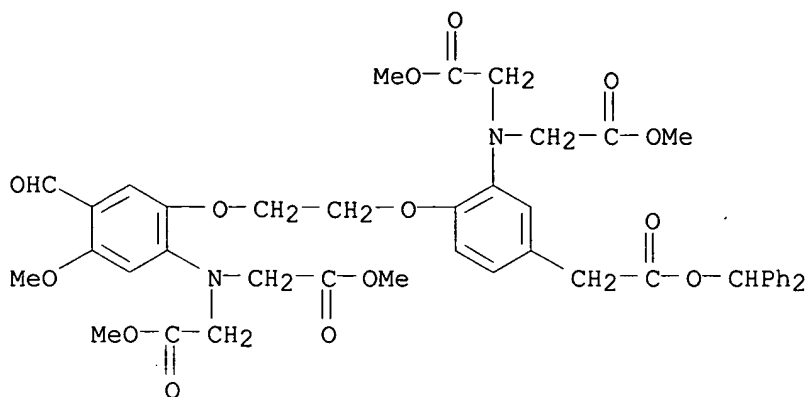


RN 663625-80-7 CAPLUS

CN Benzeneacetic acid, 3-[bis(2-methoxy-2-oxoethyl)amino]-4-[2-[2-[bis(2-methoxy-2-oxoethyl)amino]-5-formylphenoxy]ethoxy]-, diphenylmethyl ester (9CI) (CA INDEX NAME)

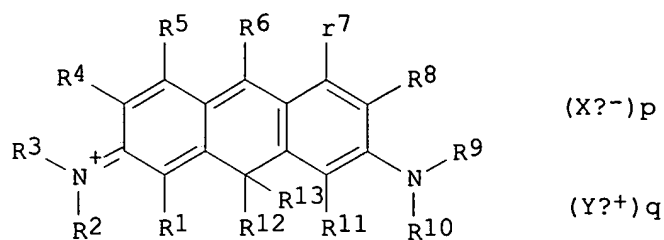


RN 663625-97-6 CAPLUS
 CN Benzeneacetic acid, 3-[bis(2-methoxy-2-oxoethyl)amino]-4-[2-[2-[bis(2-methoxy-2-oxoethyl)amino]-5-formyl-4-methoxyphenoxy]ethoxy]-, diphenylmethyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2003:58374 CAPLUS
 DOCUMENT NUMBER: 138:129079
 TITLE: Fast-writable and precision-writable high-capacity optical storage media
 INVENTOR(S): Lehmann, Urs; Aeschlimann, Peter; Sutter, Peter; Schmidhalter, Beat; Budry, Jean-Luc; Spahni, Heinz
 PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
 SOURCE: PCT Int. Appl., 83 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003007296	A1	20030123	WO 2002-EP7434	20020704
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1412942	A1	20040428	EP 2002-764629	20020704
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
JP 2004534677	T2	20041118	JP 2003-512976	20020704
US 2004142137	A1	20040722	US 2004-483130	20040108
US 6849315	B2	20050201		
PRIORITY APPLN. INFO.:			CH 2001-1297	A 20010713
			CH 2001-1516	A 20010817
			WO 2002-EP7434	W 20020704
OTHER SOURCE(S):			MARPAT 138:129079	
GI				



I

AB The invention relates to an optical recording medium, comprising a **substrate** and a recording layer, wherein the recording layer comprises a compound of I (R1-13 = H, C1-24 alkyl, C2-24 alkenyl, alkynyl, C3-24 cycloalkyl, alkenyl, C7-24 aralkyl, aryl, C4-12 heteroaryl, etc.; X^m- = inorg., organic, organometallic anion; Yⁿ+ = proton or a metal, ammonium or phosphonium cation; m, n = 1-5; p, q = 0.2-6). Generally the optical recording medium according to the invention addnl. comprises a reflecting layer. The recording media according to the invention exhibit high sensitivity and good playback characteristics, especially at high recording

and playback speeds. The light stability is also excellent.

IT **489437-97-0P**

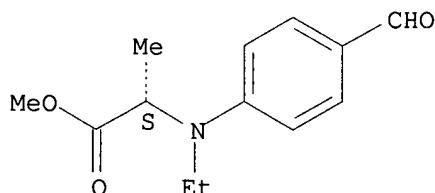
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(fast-writable and precision-writable high-capacity optical storage media)

RN 489437-97-0 CAPLUS

CN L-Alanine, N-ethyl-N-(4-formylphenyl)-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:694609 CAPLUS

DOCUMENT NUMBER: 138:299384

TITLE: Structural characterization of pyrrolic cross-links in collagen using a biotinylated Ehrlich's reagent. [Erratum to document cited in CA135:238201]

AUTHOR(S): Brady, Jeffrey D.; Robins, Simon P.

CORPORATE SOURCE: Rowett Research Institute, Aberdeen, AB21 9SB, UK

SOURCE: Journal of Biological Chemistry (2001), 276(35), 33292 CODEN: JBCHA3; ISSN: 0021-9258

PUBLISHER: American Society for Biochemistry and Molecular Biology

DOCUMENT TYPE: Journal

LANGUAGE: English

AB On page 18813, in the right column under "Biotinylation of the Carboxylic Acid Derivative," the first sentence should read: "N-Methyl-N-propionic acid-4-amino benzaldehyde (3 mg) was redissolved in 100 mM MES buffer (3

mL), pH 4.5, and biotin pentylamine (30 mg; Pierce) was added."

IT 359766-88-4P

RL: MSC (Miscellaneous); NUU (Other use, unclassified); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

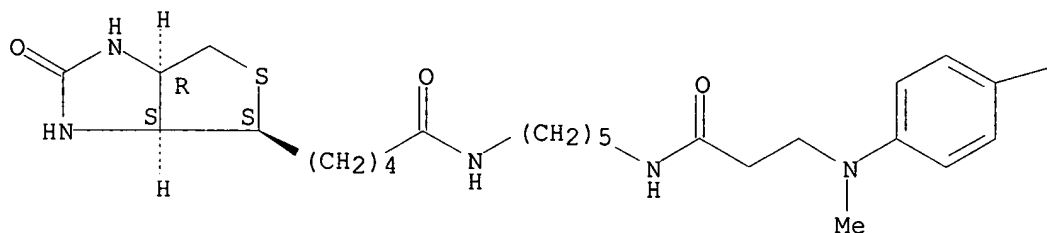
(structural characterization of pyrrolic cross-links in collagen using biotinylated Ehrlich's reagent (Erratum))

RN 359766-88-4 CAPLUS

CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[5-[[3-[(4-formylphenyl)methylamino]-1-oxopropyl]amino]pentyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

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L6 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:429765 CAPLUS

DOCUMENT NUMBER: 135:238201

TITLE: Structural characterization of pyrrolic cross-links in collagen using a biotinylated Ehrlich's reagent

AUTHOR(S): Brady, Jeffrey D.; Robins, Simon P.

CORPORATE SOURCE: Rowett Research Institute, Aberdeen, AB21 9SB, UK

SOURCE: Journal of Biological Chemistry (2001), 276(22), 18812-18818

CODEN: JBCHA3; ISSN: 0021-9258

PUBLISHER: American Society for Biochemistry and Molecular Biology

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 135:238201

AB The structures of pyrrolic forms of cross-links in collagen have been confirmed by reacting collagen peptides with a biotinylated Ehrlich's reagent. This reagent was synthesized by converting the cyano group of N-methyl-N-cyanoethyl-4-aminobenzaldehyde to a carboxylic acid, followed by conjugation with biotin pentylamine. Derivatization of peptides from bone collagen both stabilized the pyrroles and facilitated selective isolation of the pyrrole-containing peptides using a monomeric avidin column. Reactivity of the biotinylated reagent with collagen peptides was similar to that of the standard Ehrlich reagent, but heat denaturation of the tissue before enzyme digestion resulted in the loss of about 50% of the pyrrole cross-links. Identification of a series of peptides by mass spectrometry confirmed the presence of derivatized pyrrole structures combined with between 1 and 16 amino acid residues. Almost all of the pyrrole-containing peptides appeared to be derived from N-terminal telopeptide sequences, and the nonhydroxylated (lysine-derived) form predominated over pyrrole cross-links derived from helical hydroxylysine.

IT 359766-88-4P

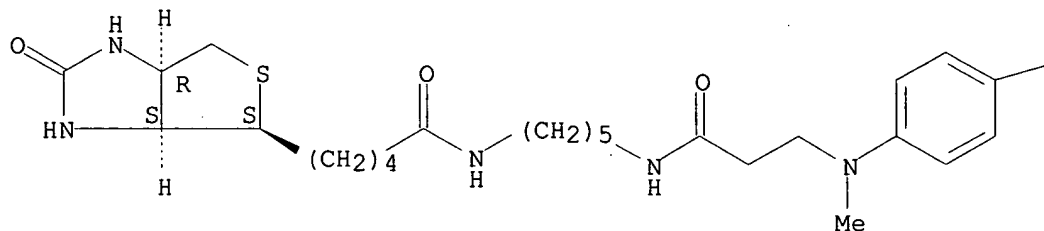
RL: MSC (Miscellaneous); NUU (Other use, unclassified); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(structural characterization of pyrrolic cross-links in collagen using a biotinylated Ehrlich's reagent)

RN 359766-88-4 CAPLUS

CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[5-[[3-[(4-formylphenyl)methylamino]-1-oxopropyl]amino]pentyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

—CHO

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
60.06	222.03

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-4.38	-4.38

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